

DEVELOPMENT SYSTEM PROVIDING EXTENSIBLE REMOTING ARCHITECTURE

ABSTRACT OF THE DISCLOSURE

A system providing improved methods for remote method invocation of a service is described. The system includes methodology for a client to cast, at design time, a generic interface class to a remote service having a defined interface. The generic interface class dynamically generates a proxy for making a remote method call on the remote service at runtime, while also providing for runtime type checking. Moreover, the generic interface class is subclassed to provide support for particular wire formats and methods of transport. The dynamically generated proxy converts a remote method call by the client into a wire format specified in the remote service's interface definition and calls the remote service using the method of transport specified in the interface definition. The system also includes methods to support making a service available to remote clients. The system includes modules that listen for remote method calls on a service and deserialize these calls into native format. This enables the service to be invoked by a native call in native format. The method includes reserializing results of the native call and returning these results in response to the remote method call.

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